



10816145

THE WARD COMPANIES
TRANSFORMER DEPT.

003274

No

Full - 37,958

Coil - 21,460

Purchased From:

TOWN

Received

Via: 60101

Sold To:

Cust:

WFO No. _____

State

Our

PROP. NO.

067

Date:

Billed

TRANSFORMER DATA

STATION TYPE

TRANSFORMER

MFG	G.E.	KVA	5000 KVA	Phase	3	Cycles	60	Class	
PRV		AC Rise	55	Imp	5.50%	Type		Insul	
Volts	22900 Δ							Class	
SEC		Pol		H.V. Bl	150 KV	L.V. Bl	75 KV	Set No	H-881582
Volts	2400 y/1385								
No	4	Taps	2 Up 2 Down	Gas Oil	830	Year		No	
Taps									
H.V. Stud	<input type="checkbox"/> Eyebolt	<input type="checkbox"/> Spade	Loc	HT Top	Max	HT		C & C Wt	11100
Bush	<input type="checkbox"/> Wall	<input type="checkbox"/> Cover	Holes Area	H.V. Bush	HT				
L.V. Stud	<input type="checkbox"/> Eyebolt	<input type="checkbox"/> Spade	Loc	HT Bush	Shaft			L & F Wt	6300
Bush	<input type="checkbox"/> Wall	<input type="checkbox"/> Cover	Holes Area	L.V. Bush	Height				
H.V. Terminal	<input type="checkbox"/> Air	<input type="checkbox"/> Oil Chamber		Wide	Ship			Oil Wt	14100
Enclosure	<input type="checkbox"/> Float			Deep	Ship			Total Wt	23500
L.V. Terminal	<input type="checkbox"/> Air	<input type="checkbox"/> Oil Chamber							
Enclosure	<input type="checkbox"/> Float								
Tophead	<input type="checkbox"/> H.V.	<input type="checkbox"/> L.V.	<input type="checkbox"/> Top	<input type="checkbox"/> Bottom	<input type="checkbox"/> Oil Level Gauge	<input checked="" type="checkbox"/> N/G		<input type="checkbox"/> Live Front	<input type="checkbox"/> Dead Front
Frankie					<input type="checkbox"/> Temperature Gauge	<input checked="" type="checkbox"/>		<input type="checkbox"/> Radial Feed	<input type="checkbox"/> Loop Feed
Design	<input checked="" type="checkbox"/> Straight	<input type="checkbox"/> Oblong	<input type="checkbox"/> Round		<input type="checkbox"/> Wdg Temp Gauge	<input type="checkbox"/> Wdg		<input type="checkbox"/> Bushing Wells	
Radial	<input type="checkbox"/> Flat	<input type="checkbox"/> Tubes	<input type="checkbox"/> Panels	<input type="checkbox"/> Removable	<input type="checkbox"/> Pres/Vac Gauge	<input type="checkbox"/> W/o		<input type="checkbox"/> Load Break Inserts	
Welded Top	<input type="checkbox"/> Bolted Top	<input type="checkbox"/> Sealed Tank	<input type="checkbox"/> Gas Oil Sealed		<input type="checkbox"/> Pres/Vac Reg Valve	<input type="checkbox"/> W/o		<input type="checkbox"/> Load Break Bushing	
Conservator	(Removable)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Relief Pipe	<input checked="" type="checkbox"/> Pres/Relief Device	<input type="checkbox"/> W/o		<input type="checkbox"/> Dual Voltage Switch	
Auto Gas Sealed	<input type="checkbox"/> Free Breathing								
Oil	<input type="checkbox"/> Silicon	<input type="checkbox"/> R Temp	<input type="checkbox"/> Water Cooled		<input type="checkbox"/> Pres/Relief Valve				
Gas Type	<input type="checkbox"/> Other				<input type="checkbox"/> Sudden Pres. Relay	<input type="checkbox"/> Sil. Rel		<input type="checkbox"/> Delta-Wye Switch	

throats on H.V. + L.V.

NO FRONT or BOTTOM PANELS

L.V. 1- 4-HOLE SPADE TYPE

Learning Mission

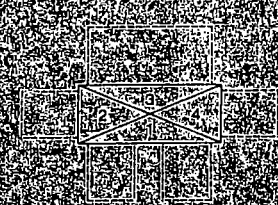
* Note To Salesman - Nameplate Starts

ALL Cooper!

used: 1100 - Zero

H.G. = 4000 + 1000 V scale 1/1000

11-6 4000 + SMALL MOUTH WAVEY



U.S. EPA REGION IV

SDMS

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE
DIFFICULT TO VIEW DUE TO THE QUALITY OF
THE ORIGINAL.

TO MAKE THE DOCUMENT READABLE, TRY
ONE OR MORE OF THE FOLLOWING:

From the Displays Settings in Windows Control Panel:

1. Set the Color Quality to the highest available: 24 bit or 36 bit.
2. Increase or decrease the Screen resolution.

From the Monitor/Display Controls:

1. For dark image page, increase the brightness and decrease the contrast.
2. For light image page, decrease the brightness and increase the contrast.

**** PLEASE CONTACT THE APPROPRIATE RECORDS CENTER TO VIEW THE MATERIAL ****

TRANSFORMER TEST DATA

KVA	PH	CY	PRR V	SEC V
AMBIENT TEMP	TOP OIL TEMP	C	HUMIDITY	

INSULATION RESISTANCE

WINDING RESISTANCE (IN OHMS)

TEST	TEST RESULTS IN MEGOHMS	TEST KV	GUARD	X1-X2	H1-H2
LOW TO GROUND &	10000			480	556
HIGH TO GROUND &	7000			477	558
HIGH TO LOW	6500			482	556

TRANSFORMER TURNS RATIO: (POLARITY ☐ SUBTRACTIVE ☒ ADDITIVE)

VOLTAGE	TAP NO.	% TAP	H1-H2 X	H1-H2 X	H1-H2 X	H1-H2 X	CALCULATED
	A		17.342	17.342	17.342		
	B		16.937	16.937	16.937		
22900	C	100%	16.515	16.515	16.515		
	D		16.095	16.095	16.095		
	E		15.687	15.687	15.687		

DIELECTRIC INSULATION TESTS

APPLIED POTENTIAL TEST	WINDING	VOLTAGE RATING	TEST VOLTAGE APPLIED IN KV	DURATION OF TESTS IN SECS
	H	22900	34.5	60
	X	2400	10	60
INDUCED POTENTIAL TEST	2 TIMES RATED VOLTAGE ACROSS FULL WINDING KV FROM KV LINE TERMINAL TO GRD CYCLES PER SEC FOR CYCLES			

EXCITING CURRENT:

VOLTAGE	A PHASE	B PHASE	C PHASE	AVERAGE
LINE CURRENT	AMPS	AMPS	AMPS	

LOSSES / IMPEDANCE:

NO LOAD LOSS WATTS	LOAD LOSS WATTS	TOTAL LOSS WATTS	% I ² R	% I ² R	% I ² R	CALCULATED % I ² R

OIL TEST DATA:

AVERAGE DIELECTRIC	NEUT #	COLOR	IFT	SPECIFIC GRAVITY	PCB
AV					

CHECK LIST:

H.V. BUSH. LOC.

L.V. BUSH. LOC.

DATE TESTED: 11-9-95

<input checked="" type="checkbox"/> OIL LEVEL			TESTED BY: Dawn Skinner
<input checked="" type="checkbox"/> NO LEAKS			APPROVED BY:
<input checked="" type="checkbox"/> PRI. BUSHINGS			
<input checked="" type="checkbox"/> SEC. BUSHINGS	7-26-95	Camera in #1 Position	
<input checked="" type="checkbox"/> GAUGES	A	B	C
<input checked="" type="checkbox"/> INSPECTION COVER	1	17.396	17.396
<input checked="" type="checkbox"/> BUSHINGS MARKED	2		
<input checked="" type="checkbox"/> SEC. GRD. CONNECTED	3		
<input checked="" type="checkbox"/> WARD LABELS	4		
	5		

NOTE 10-27-95 B⁴ Leg Small
Spartan Corp H.V. Defective
Factor 10

SHOP

WARD TRANSFORMER CO., INC.

ORDER SHEET

P.O. BOX 30009 • MT. HERMAN CHURCH ROAD
RALEIGH, N.C. 27622

PHONE: 919-787-3553
800-334-9600

FAX: 919-787-1683

ORDER NO.	DATE SOLD	SALESMAN
21-41983		
CUSTOMER NO.	TERMS	
012970 .0 % Disc - 0 Days		

S
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PCS PHOSPHATE
PO BOX 48
AURORA, NC

27806

CUSTOMER P.O. NO.
ATTENTION: E-10095984
TELEPHONE NO.:

919-322-8288

S
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T
O

PCS PHOSPHATE
HWY 306 NORTH
AURORA, NC

REFERENCE NO.:
ATTENTION:
TELEPHONE NO.:

DATE REQUIRED 10/16/95 F.O.B. PT. & FREIGHT:

27806

SHIP VIA: 919-322-8288

ITEM NUMBER	QTY. ORD.	QTY. SHIP	DESCRIPTION	UNIT
33-3274	1	0	RE-MFG G-E 5000KVA STATION SERIAL #H-881582 5000KVA 3P 60HZ 55 DEGREE C RISE 5.50% IMP HIGH VOLTAGE 22,900 WITH 2 2 1/2 TAPS A&B LOW VOLTAGE 2400V/1386 REWIND ALL THREE COILS WITH COPPER NEW INSULATION NEW OIL ANSI TEST 1 YEAR WARRENTY SALE PRICE FOB RALEIGH, NC	EA
Snowick 6 layers MILAS Between 1/16 Prepared				
10/16/95				

INSTRUCTIONS:

7.

Phone 216-452-0837



PCS PHOSPHATE REQUEST FOR QUOTE
P.O. BOX 48
AURORA, NORTH CAROLINA 27806

QUOTE NOT LATER THAN: 7/22/95

WADE FACEY
6669 WARD TRANSFORMER CO., INC.
MOUNT HERMAN CHURCH ROAD
P O BOX 30009

RALEIGH, NC

DELIVERY REQUIRED 8/11/95

NUMBER: 26042
DATE: 7/21/95
THIS IS NOT AN ORDER

PCS CONTACT: FRANK ALCOCK
FAX NO. 919-322-8114
WE QUOTE YOU AS BELOW
BY (SIGNATURE)

TITLE _____ DATE _____
27622

TERMS:
F.O.B.:

LNE	ITEM	QTY	PART	DESCRIPTION	DELIVERY DATE	UNIT PRICE
-----	------	-----	------	-------------	------------------	---------------

1

REPAIR ONE EACH 5000 KVA 22900-2400
TRANSFORMER SER H881582 G.E.
PCS TAG#206 OIL ANALYSIS HAS BEEN FAXED

Texasgulf Inc. PURCHASE ORDER

an elf aquitaine company

Texasgulf Inc.
Highway 306 N.
Aurora, North Carolina 27806
(919) 322-4111

PURCHASE ORDER NO.

1E-10095984

IE67912

Date

7/21/95

N.C. Tax Exemption Certificate No. 364

Use Ship To address unless alternate is given below.

To: WARD TRANSFORMER CO., INC.
MOUNT HERMAN CHURCH ROAD
P O BOX 30009
RALEIGH, NC

Terms and Conditions
This purchase order constitutes Texasgulf's offer to seller and becomes a binding contract on the terms and conditions forth herein, including those on the reverse side or on file with the seller, when it is accepted by seller either by seller's signature and returning the acceptance copy or by commencing performance. No revisions of the order or any of its term conditions shall be valid unless in writing and signed by an authorized representative of Texasgulf's Purchasing Department. No conditions stated by seller in accepting this order shall be binding upon Texasgulf if it conflicts with inconsistent or in addition to the terms and conditions contained herein.

27622

Ship Via

Terms

Buyer

Vendor

2% 10 Net 30

FRANK ALCOCK

F.O.B. AURORA

Item	Quantity	Unit	Tg Number	Description	Due Date	Unit Price
1				<p>TAG ALL ITEMS WITH TG PART NUMBERS</p> <p>REPAIR ONE EACH5000 KVA 22900-2400 TRANSFORMER SER H881582 G.E. PCS TAG#206 OIL ANALYSIS HAS BEEN FAXED</p>		

MAIL
TO:

TEXASGULF INC.
P.O. BOX 48
AURORA, NC 27806

Notice

Mail invoice in quadruplicate to the Accounting Department.
Be sure to mark all shipping papers and invoice with
purchase order number.

By:

500.00

Texasgulf Inc. PURCHASE ORDER

an elf aquitaine company

Texasgulf Inc.
Highway 306 N.
Aurora, North Carolina 27806
(919) 322-4111

Use Ship To address unless alternate is given below.

To: WARD TRANSFORMER CO., INC.
MOUNT HERMAN CHURCH ROAD
P O BOX 30009
RALEIGH, NC

Date

7/21/95

N.C. Tax Exemption Certificate No. 384

PURCHASE ORDER

E-10095984

Req. Number

IE6-7912

Terms and Conditions

This purchase order constitutes Texasgulf's offer to seller and becomes a binding contract on the terms and conditions set forth herein, including those on the reverse side or on file with the seller, when it is accepted by seller either by seller's return of the acceptance copy or by commencing performance. No revisions of this order or any of its conditions shall be valid unless in writing and signed by an authorized representative of Texasgulf's Purchasing Department. No conditions stated by seller in accepting this order shall be binding upon Texasgulf if in conflict with, inconsistent with, or in addition to the terms and conditions contained herein.

27622 Vendor	Ship Via	Terms 2% 10 Net 30	Buyer FRANK ALCOCK	FOB F.O.B. AURORA
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Item	Quantity	Unit	Tg Number	Description	Due Date	Unit Price
				<p>CONF. BASED ON RFQ# 000026042 07/21/95</p> <p>*****</p> <p>* NOTICE TO SUPPLIER *</p> <p>* IF THE ABOVE "SHIP VIA" AND "FOB" *</p> <p>* ARE NOT APPLICABLE, USE THE FOLLOWING*</p> <p>* SHIPPING INSTRUCTIONS, UNLESS *</p> <p>* OTHERWISE NEGOTIATED. SHIPPING *</p> <p>* CARRIERS ARE LISTED IN ORDER OF *</p> <p>* PREFERENCE: *</p> <p>* *</p> <p>* (1) UPS - PREPAY & ADD *</p> <p>* (2) SOUTHEASTERN FREIGHT - COLLECT *</p> <p>* (3) ESTES FREIGHT - COLLECT *</p> <p>* (4) YELLOW FREIGHT - COLLECT *</p> <p>* *</p> <p>*****</p> <p>*****</p> <p>**** ALL PAINTED SURFACES ARE TO BE ****</p> <p>**** LEAD FREE PAINT ****</p> <p>*****</p> <p>*****</p> <p>*ATTENTION SUPPLIER*****DUE DATES *</p> <p>*SHIP ANY OF THE MATERIAL ON THIS ORDER*</p> <p>*THAT YOU CAN BEFORE THE DUE DATE!!!!!!*</p> <p>*****</p>		

MAIL TO

TEXASGULF INC.
P.O. BOX 48
AURORA, NC 27806

Notice

Mail invoice in quadruplicate to the Accounting Department.
Be sure to mark all shipping papers and invoice with purchase order number.

By:

The preceding order is subject to the following additional terms and conditions.

1. Acceptance. Acceptance copy must be signed and returned immediately. If seller does not accept this order exactly as written, seller shall return it at once with explanation.
2. Packing slips must be included in all shipments, and copy included with last shipment must state "Order Completed".
3. Purchase order number must be shown on each invoice, package, and packing slip.
4. Invoices must be rendered in duplicate immediately after each shipment and bill of lading or freight receipts attach each invoice. Seller shall send a separate purchase order.
5. Specifications and charges. This order must not be filled or performed at prices or with materials other than those specified herein, nor any additional charges (including packaging and transportation charges) made, without the consent of PCS Phosphate Purchasing Department.
6. Taxes. Seller shall pay and hold PCS Phosphate harmless from all taxes (including penalties and interest) arising out of this order, except sales and use taxes due the State of North Carolina. PCS Phosphate is authorized to purchase tangible personal property without prepayment of a North Carolina sales and use tax and holds from the North Carolina Department of Revenue Purchaser's Certificate of Authority No. 364 to buy tangible personal property subject to sales use tax without payment of tax to vendor.
7. Payment. It is understood that all cash discount periods will date from the receipt of goods or services or from receipt of the invoice, whichever is later, regardless of any conflicting provision or policy of seller.
8. Warranty. Seller expressly warrants that all materials and services covered by this order shall be in exact accordance with such order and the description or specifications herein, and shall be free from defects in material or workmanship. The warranty shall survive delivery, acceptance or payment for the materials or services. Seller agrees to repair or replace all defective materials or work at its own expense. Any deviations from this order or from descriptions or specifications furnished hereunder must be approved in writing by PCS Phosphate Purchasing Department.
9. Cancellation. PCS Phosphate reserves the right to cancel this order at any time and, in the event of cancellation, shall be liable only for that portion of goods delivered or work performed which is satisfactory to PCS Phosphate and substantiated by documentation acceptable to PCS Phosphate.
10. Compliance with laws. Seller agrees to comply with all applicable federal, state, and local laws and regulations which directly or indirectly relate to the materials or services called for by this order.
11. Safety is a prime consideration hereunder where work is performed on PCS Phosphate premises, and seller shall perform work in accordance with PCS Phosphate safety regulations.
12. Completion of Order. It is understood that time is of the essence in the filling or performance of this order.
13. Indemnity. Seller shall indemnify and hold PCS Phosphate harmless against all loss, liability or cost of any nature arising out of this order (including attorney fees) to which PCS Phosphate may be subjected by reason of any act or omission of seller, its employees, agents or successors.
14. Patents. Seller agrees to indemnify and hold PCS Phosphate harmless against any claim or demand based upon the infringement of any patent in the filling or performance of this order.
15. Confidentiality. Seller agrees not to release any advertising copy or otherwise publicly divulge information concerning PCS Phosphate operations or the opinions of PCS Phosphate employees without prior authorization by PCS Phosphate.
16. Interpretation and assignments. This order shall be construed according to the laws of the State of North Carolina. This order may not be assigned by seller, or the work hereunder subcontracted, without PCS Phosphate's written consent.
17. Cleanup. Seller shall keep PCS Phosphate premises broom clean during the performance of any work ordered hereby and remove debris incidental thereto.

SWPALLED

EQUIP. NO. 76 PAGE 74

CONTACT / PHONE

COMMENTS:

OUTDOOR	INDOOR	RIG	ROOF	VAULT	POLE	PLATFORM	PORTABLE REQ'D	HOSE LENGTH	ELECT. POWER AVAILABLE
X						X			

MANUFACTURER	SERIAL NUMBER	KVA	PRIMARY VOLTS	SECONDARY VOLTS	PHASE	TRANS.	REG.	TAP COMP.	OIL SW.	O.C.B.	TANK NO.
G.E.	H881582	5000	22900	2400	3	8					

[illegible][illegible]

N NORMAL H HIGH L LOW	N/A NOT AVAILABLE NOTE: ASKAREL - COLOR ASTM D 2129	O OIL	A ASKAREL	RT R. TEMP	SL SILICONE
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DATE	11-88		
CERT NO.	15462		
P. P. M.	42		

7000 GATEWAY BLVD S.E., CANTON, OHIO 44707

